

SHOES HAVING IMPROVED ANKLE SUPPORT

BACKGROUND OF THE INVENTION

5 I. Field of Invention

This invention relates to shoes. More particularly, the present invention relates to shoes having an ankle portion formed for improved ankle support and for control of unwanted ankle movement.

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II. Description of the Prior Art

Conventional shoes have a sole to support the bottom of the wearer's foot and a foot cover member attached thereto to cover the wearer's foot. Shoes conventionally come in
15 two forms, low cut versions and high top versions. In low cut versions, the foot cover portion extends to just below the wearer's bulging ankle bone. In high top versions, the foot cover member extends upward to cover the wearer's bulging ankle bone.

20 High tops are often worn because they provide ankle support that low cut types of shoes lack. However, high tops themselves provide a relatively low amount of ankle support. This low amount of ankle support may be suitable for players in sports such as basketball and football, which
25 requires a lot of quick cutting movement. However, in sports such as golf, a higher degree of ankle support can be

required for improved performance. A shoe having a high degree of ankle support can be worn in golf since there is relatively limited amount of foot movement necessary when playing.

5 Golf shoes are known for having spikes protruding from the bottom surface for gripping the surface of the playing surface. However, one of the disadvantages of the conventional golf shoe is limitation in ankle control. An abruptly strengthened golf swing has a tendency to lead to
10 an unwanted ankle shift or twist which may result in a poor swing and even an ankle joint injury.

As such, in an activity or sport requiring a relatively high amount of ankle support, such as golf, a shoe as taught in the present invention is desirable.

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SUMMARY OF THE INVENTION

The present invention is contrived to overcome the conventional disadvantages. Accordingly, it is an object of the present invention to provide a shoe having a relatively
20 high amount of ankle support. Additionally, it is another object of the present invention to provide a shoe having a relatively high amount of ankle support which is comfortable for use in sports such as golf. It is yet another object of the present invention to provide a shoe which can be worn in
25 playing golf to prevent an unwanted ankle movement during a club swing.

To achieve these objects, the shoe of the present invention has an insertable support piece having an ankle support and legs extending downwardly from the ankle support. The legs are removably inserted down into a pocket
5 formed on both sides of the foot cover member of the shoe at the portions corresponding to a wearer's ankle. A U-shaped support pad is embedded in the rear portion of the foot cover member to extend around a wearer's heel. In addition, a cap is provided to cover the ankle support of
10 the support piece, and a cover band is provided on each side of the shoe to firmly hold the support piece in the desired place.

In a second embodiment of the present invention, the shoe has a padded support sleeve attached to each side of
15 the foot cover member corresponding to the wearer's ankle. Each support sleeve has a lower portion attached to the foot cover member and an upper portion where a vertical opening is formed from atop thereof and extends through the lower portion. A first support piece is removeably
20 inserted into each support sleeve. Each first support piece has an ankle support and legs extending downwardly from the ankle support. The legs are removably inserted in the vertical openings and the ankle support covers a user's anklebone.

25 Although the present invention is briefly summarized, the full understanding of the invention can be obtained by

the following drawings, detailed description and appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

5 These and other features, aspects and advantages of the present invention will become better understood with reference to the accompanying drawings, wherein:

FIG. 1 is an exploded view showing construction of a golf shoe according to the present invention;

10 FIG. 2 is a perspective view showing assembly of a support piece and a cap to the shoe; and

FIG. 3 is a perspective view showing the assembled shoe.

FIG. 4 is a partial exploded perspective view of a
15 second embodiment of the present invention;

FIG. 5 is a construction view of the second embodiment of the present invention; and

FIG. 6 is a perspective view showing insertion of the first support piece according to the second embodiment of
20 the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

With reference to the accompanying drawings, a shoe according to the present invention will now be described.

25 As shown in FIG. 1, the shoe 20 includes a sole 15 attached to a foot cover member 19, and a plurality of lace holes 11

extends in two front rows on the front portion 12 of the
foot cover member 19. A pocket 18 is formed on each side of
the foot cover member 19 at the portion corresponding to a
wearer's ankle. Each pocket 18 has a top opening for
5 insertion of a support piece 17 into the pocket 18 from
above. Each support piece 17 has an ankle support 21 and
legs 22 downwardly extending from the ankle support 21
serving to support the wearer's anklebone. Here, the legs
22 of the support piece 17 are inserted into the pocket 18
10 whereas the ankle support 21 of the support piece 17 remains
out of the pocket 18 while covering the user's ankle. A cap
6 is provided to cover the ankle support 21 of the support
piece 17.

The shoe 20 of the present invention, as shown in
15 figure 1, further has a support pad 43 formed into the
lower rear portion of the foot cover member that is U-shaped
to surround the wearer's heel thereby allowing the wearer to
maintain a stabilized posture during an activity. Also, a
cover band 9 is formed on each side of the foot cover member
20 19. Each cover band 9 has a first end 23 connected to the
foot cover member 19 behind a corresponding pocket 18 and a
second end 25 having an engagement member 8 thereon. Each
cover band 9 is sized and placed on the foot cover member 19
to extend over a corresponding pocket 18 and towards the
25 front portion 12 of the shoe 20.

The cap 6 includes a sponge portion 5 that provides cushion between the user's ankle and the ankle support 21 of the support piece 17. In this construction, to wear the cap 6 over on the support piece 17, the ankle support 21 of the support piece 17 is inserted in the opening 6a of the cap 6. The cap 6 further includes a first band of fastening means 4 that matches with a second band of fastening means 7 on inner surface 28 of the cover band 9. The fastening means may be alternately formed in hook fastening members and loop fastening member piles as shown in the illustrations. In the alternative, the fastening means can be alternately formed in snap and button (not shown).

When the cover band 9 is covered over the pocket 18 that has the legs of the ankle support 17 therein and the fastener means 4 thereon, the second fastening means 7 of the band 9 becomes detachably attached to the first fastener means 4 of the cap 6. Here, the cover band 9 together with the support pad 3 of the shoe serves to support the wearer's heel while propping the wearer's ankle and anklebone.

In the embodiment shown in figure 3, the first end 23 of the cover band 9 is fixed to the foot cover member near the heel side of the shoe and the second end 25 of the cover band 9 has an engagement ring 8 attached thereto for engagement by a shoe string 19a. That is, the second fastening means 7 of the cover band 9 is detachably attached to the first fastening means 4 of the cap 6, and the

engagement ring 8 formed on the second end 25 of the cover band 9 is hooked by the shoe string 19a, thereby realizing a stabilized additional propping to the wearer's ankle and anklebone. In the alternative (not shown), the second end
5 of the cover band 9 can simply have an engagement member which is an opening formed therethrough sufficient for passage of a shoe lace.

As shown in FIGS. 2 and 3, the legs of the support piece 17 are inserted into the pocket 18, and the cap 6 is
10 worn over on the ankle support of the support piece 17 so that the sponge portion 5 becomes placed between the wearer's anklebone and the ankle support 21 of the support piece 17, and then the cover band 9 is covered over the pocket 18 with the second fastening means 7 attached to the
15 first fastening means 4. This ankle and anklebone support mechanism is competed by hooking the engagement ring 8 by the shoe string 19a, thereby stably supporting the wearer's ankle and anklebone while preventing the support piece 17 from being released from the pocket 18 during movement by
20 the wearer.

As discussed above, the removably provided support piece 17 along with the support pad 3 embedded between surfaces of the shoe prevents an unwanted ankle movement or twisting during club swing, thereby improving club swing
25 accuracy and maximizing product satisfaction.

A second embodiment of the present invention is illustrated in Figures 4 to 6. As shown, the second embodiment comprises a shoe 10 having a sole 15 attached to a foot cover member 19, and a plurality of lace holes 11
5 extends in two front rows on the front portion 12 of the foot cover member 19. A support sleeve 3 is disposed on each side of the foot cover member 19 at the portion corresponding to a wearer's ankle area. Each support sleeve 3 has a top opening for vertical insertion of a first
10 support piece 17 therein. The support sleeve 3 can be padded and is attached so that without the first support piece 17 therein, at least the top half bends outwardly over to become detachably attached on the side ankle area of the foot cover member 19.

15 In the construction shown in the figures 4 to 6, the support sleeve 3 is placed into the foot cover member 19. Also, in the illustrated construction, the support sleeve 3 attaches to the foot cover member 19 by a snap 30 and button 32. In the alternative (not shown), the support sleeve 3
20 can be attached to the foot cover member 19 by use of bands of hook and loop fasteners (not shown).

The second embodiment of the shoe further includes a plurality of L-shaped second support pieces 35 embedded in the shoe 10 extending from the foot cover portion 19 and to
25 the sole 15. The second support pieces 35 are placed in the area corresponding to the lower ankle area of the wearer's

foot. Each second support piece 35 has an upper portion 38 embedded in the foot cover member 19 and a lower portion 40 planted in the sole 15. The second support piece 35 provides an additional elasticity and is preferably formed in plural.

5 The second support pieces 35 may be formed in a slightly hooked configuration in the alternative. In order to fabricate the second support piece 35, a compound resin with high strength is cut out preferably with a thickness of about 1.0 to 1.5 millimeters and a width of about 1.0

10 centimeter and then crooked in "L" shape.

The first support piece 17 as shown in figure 4 includes an ankle support 21 and legs 22 extending downward from the ankle support. A slot opening 44 is formed between the legs 22. The legs 22 are formed preferably slimmer or

15 narrower toward each lower tip of the legs 22. It is desirable to have the first support piece 17 formed of a compound resin with high strength to reserve elasticity while preventing unwanted ankle movement during a movement of the wearer. The ankle support 21 is formed to fittingly

20 surround a user's anklebone. A band 2 is formed through the upper portion of the support sleeve 3 and around a user's ankle to maintain the support sleeve 3 raised when required. In this construction, the legs 22 of the first support piece 17 are detachably inserted into the openings 1 of the

25 support sleeve whereas the ankle support 21 of the first support piece 17 remains exposed while covering the wearer's

ankle. As shown in FIG. 6, the second support piece 35
together with the first support piece 17 serves to prop the
user's ankle. For additional ankle support, the second
embodiment can further include a U-shaped heel support pad
5 43 embedded in the lower rear portion of the foot cover
member, which is sized and shaped to extend around a
wearer's heel.

In proper use of the second embodiment, each support
sleeve 3 is raised to be vertical and the legs 22 of each
10 first support piece 17 are inserted into the corresponding
openings 1 of the support sleeve 3 such that the ankle
support 21 safely of each first support piece 17 covers the
corresponding side of the user's anklebone. Thereafter, the
band 2 is tied around the user's ankle. Consequently, the
15 user's ankle and anklebone are stably supported by the first
and second support pieces 17, 35 to prevent unwanted ankle
movement or twisting and maintain a stabilized posture in a
predetermined activity.

Although the invention has been described in
20 considerable detail with reference to certain preferred
versions thereof, other versions are possible by converting
the aforementioned construction. Therefore, the scope of the
invention shall not be limited by the specification
specified above and the appended claims.